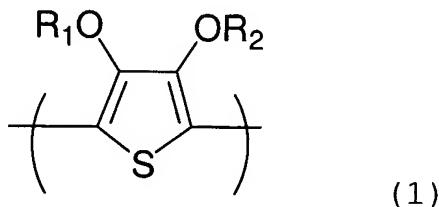


AMENDMENTS TO THE CLAIMS:

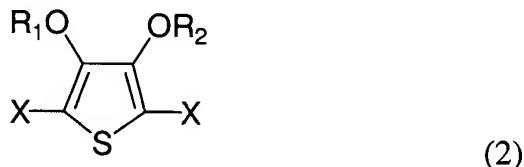
Please amend claims 3 and 6 as follows.

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (*Original*) A process for preparing conductive polythiophenes comprised of structural units of the general formula (1):



where R₁ and R₂ independently represent hydrogen or a C₁~C₄ alkyl group, or together represent an optionally substituted C₁~C₄ alkylene group, preferably an optionally alkyl-substituted methylene group, an optionally C₁~C₄ alky- or phenyl-substituted 1,2-ethylene group, a 1,3-propylene group or a 1,2-cyclohexylene group; which are prepared from 2,5-dihalothiophene of the general formula (2):



where R₁ and R₂ are described as above in the general formula (1), and X is a halogen atom selected from Cl, Br and I;

in the presence of an acid catalyst.

2. (*Original*) A process for preparing polythiophenes according to claim 1, wherein R₁ and R₂ independently represent methylene, 1,2-ethylene or 1,3-propylene.

3. (*Currently Amended*) A process for preparing polythiophene according to claim 1-~~or~~2, wherein the acid catalyst is a Lewis acid, protic acid, organic acid or polymeric acid.

4. (*Original*) A process for preparing polythiophenes according to claim 3, wherein the Lewis acid catalyst is a boron salt, zinc salt, tin salt or iron salt; the protic acid catalyst is phosphoric acid, sulfuric acid, nitric acid, hypochlorous acid, HF, HCl, HBr or HI; the organic acid catalyst is carboxylic acid or sulfonic acid; polymeric acid catalyst is polystyrenesulfonic acid, polyacrylic acid, polymethacrylic acid, polymaleic acid or polyvinylsulfonic acid; and the catalyst is used individually or as a mixture of two or more.

5. (*Original*) A process for preparing polythiophenes according to claim 4, wherein the boron salt is boron trifluoride, boron trifluoride dihydrate, boron trifluoride diethyl etherate, boron trifluoride-alcohol complex, boron trifluoride-methyl sulfide complex, boron trifluoride-phosphoric acid complex, boron trichloride, boron trichloride-

methyl sulfide complex, boron tribromide, or boron tribromide-methyl sulfide complex, used individually or as a mixture of two or more.

6. (*Currently Amended*) A process for preparing polythiophenes according to ~~any one of claims 1 to 5~~claim 1, wherein the solvent is a C₆~C₂₀ aliphatic or aromatic hydrocarbon, halogen-containing hydrocarbon, ketone, ether, C₂~C₂₀ alcohol, sulfoxide, amide and water, or a mixture thereof.

7. (*Original*) A process for preparing polythiophene according to claim 6, where the solvent is a C₆~C₂₀ aliphatic or aromatic hydrocarbon including alkanes, alkylbenzenes and phenol; halogen-containing hydrocarbon including alkanes and halobenzenes containing halogen substituent(s); ketone including acetone, propanone, butanone, pentanone, hexanone, heptanone, octanone and acetophenone; ether including diethyl ether, tetrahydrofuran (THF), dipropyl ether, dibutyl ether, methyl butyl ether, diphenyl ether, dioxane, diglyme, diethylene glycol and ethylene glycol (EG); sulfoxide including dimethylsulfoxide (DMSO); amide including N,N-dimethylformamide (DMF), N-methylacetamide (NMAA), N,N-dimethylacetamide (DMA), N-methylpropionamide (NMPA) and N-methylpyrrolidinone (NMP), used either individually or as a mixture of two or more.